Warranty

Limited Warranty To Original Purchaser

Kanto AV Systems (Kanto) warrants the equipment it manufactures to be free from defects in material and workmanship for the following limited warranty period of:

24 months parts and labour

If equipment fails because of such defects and Kanto or an authorized dealer is notified within 24 months from the date of shipment with proof of original invoice. Kanto will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the repair. Such repairs are warranted for 90 days from the day of reshipment to the original purchaser. This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

The information in the owner's manual has been carefully checked and is believed to be accurate. However, Kanto assumes no responsibility for any inaccuracies that may be contained in the manual. In no event will Kanto, be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages.

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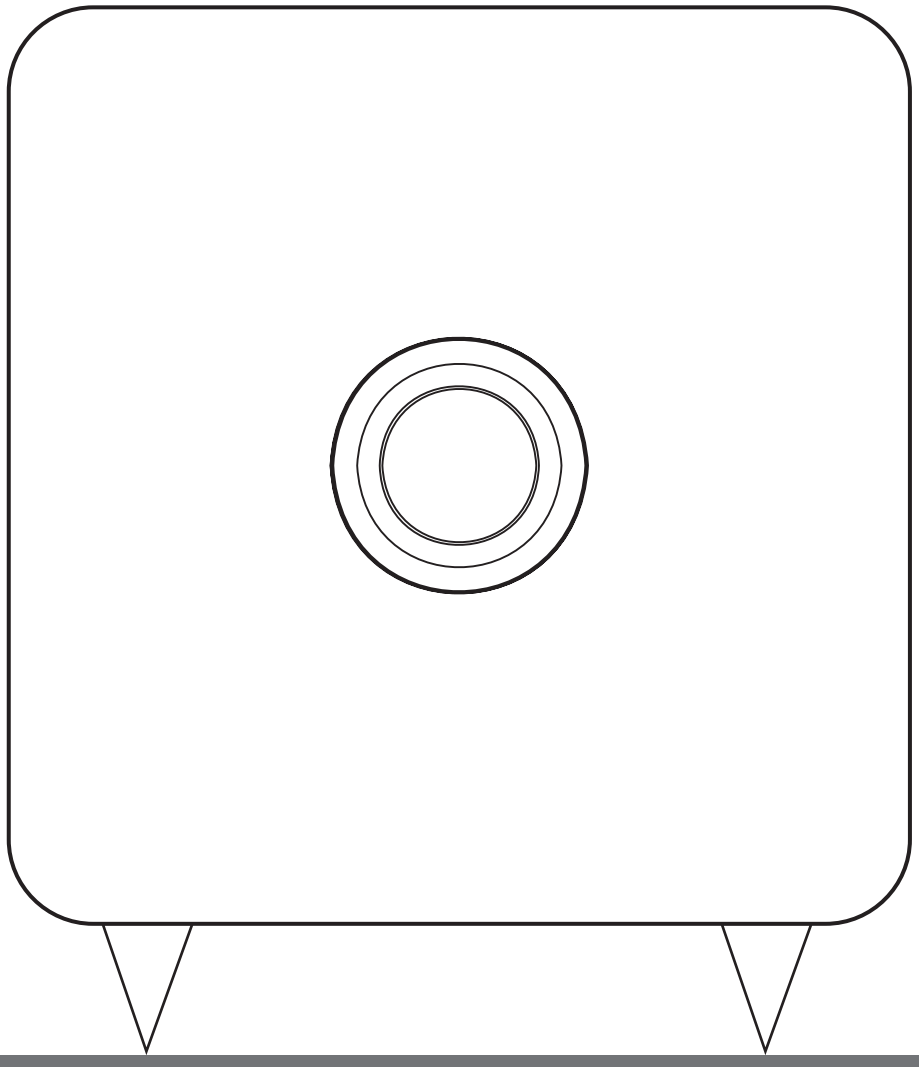
kanto®

User Manual

YARO SUB



Supporting your digital lifestyle™

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Important Safety Instructions

1) Follow all instructions.
2) Do not use this appliance near water.
3) Clean only with a dry cloth.
4) Do not install near any heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
5) Do not leave subwoofer in an environment exposed to dust, direct sunlight or excessive moisture.
6) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety.
7) Protect the power cord from being walked on or pinched, particularly at the point where it exits from the appliance.
8) Do not block any of the ventilation openings that were installed in accordance with the manufacturer's instructions.
9) Unplug this appliance during lightning storms or when unused for long periods of time.
10) Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way.

SAFETY PRECAUTIONS

The lightning flash with the arrowhead symbol in an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" inside the appliance that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Introduction

Thank you for purchasing YAROsub from Kanto.

YAROsub uses a 150 Watt high-power amplifier to combine tight bass extension with high output levels. YAROsub complements any Kanto speaker by providing additional frequency range; guaranteed to please any bass junkie's craving. YAROsub extends bass performance and enhances the over-all sound performance of your Kanto system.

To learn more about Kanto products visit us at *www.kantospeakers.com*

Box Contents

- YAROsub
- AC power cable
- 10' (3m) RCA sub jumper

SAFETY PRECAUTIONS

For your security and for the correct implementation of this product, please read the safety precautions on the inside cover page.

Caution, if you want to reduce the risk of being electrocuted, do not remove the rear panel on this product. Please contact your retailer or a qualified technician for any maintenance that needs to be carried out. When the volume is high, this system can produce noise levels that could permanently damage your hearing.

Connections and Controls

A: LINE IN RCA - Input jacks, accept up to 1.4 volts of audio input signal (mono and stereo)

B: LINE OUT RCA - High pass filtered RCA output jacks with left and right line output signals. The line out RCA's are not functional when the line in signal (going into the subwoofer) is derived from a sub-filtered output of an external processor.

C: CROSSOVER - The 12dB/Octave variable crossover filter is designed to control the subwoof cut off frequency (Range from 40 hz to 180Hz)

D: VOLUME - Manual adjustment of the sound level of the subwoofer. Always start at MIN position add slowly increase the volume to reach the desired subwoofer level.

E: PHASE SHIFT - 0 - 180 degrees subwoofer phase shift switch

F: POWER SWITCH - For operating the amplifier automatic or manual power on. In automatic mode, the YARO subwoofer will turn OFF after 15 minutes if no audio signal is detected.

G: POWER INPUT - The YARO subwoofer operates in 115V and 230V environments. A sliding switch located near the power plug allows for both operations.

H: AC POWER - Power plug

I: MASTER POWER - Switch off to converse power when product is not used for long periods.

J: SUB IN -

Operation

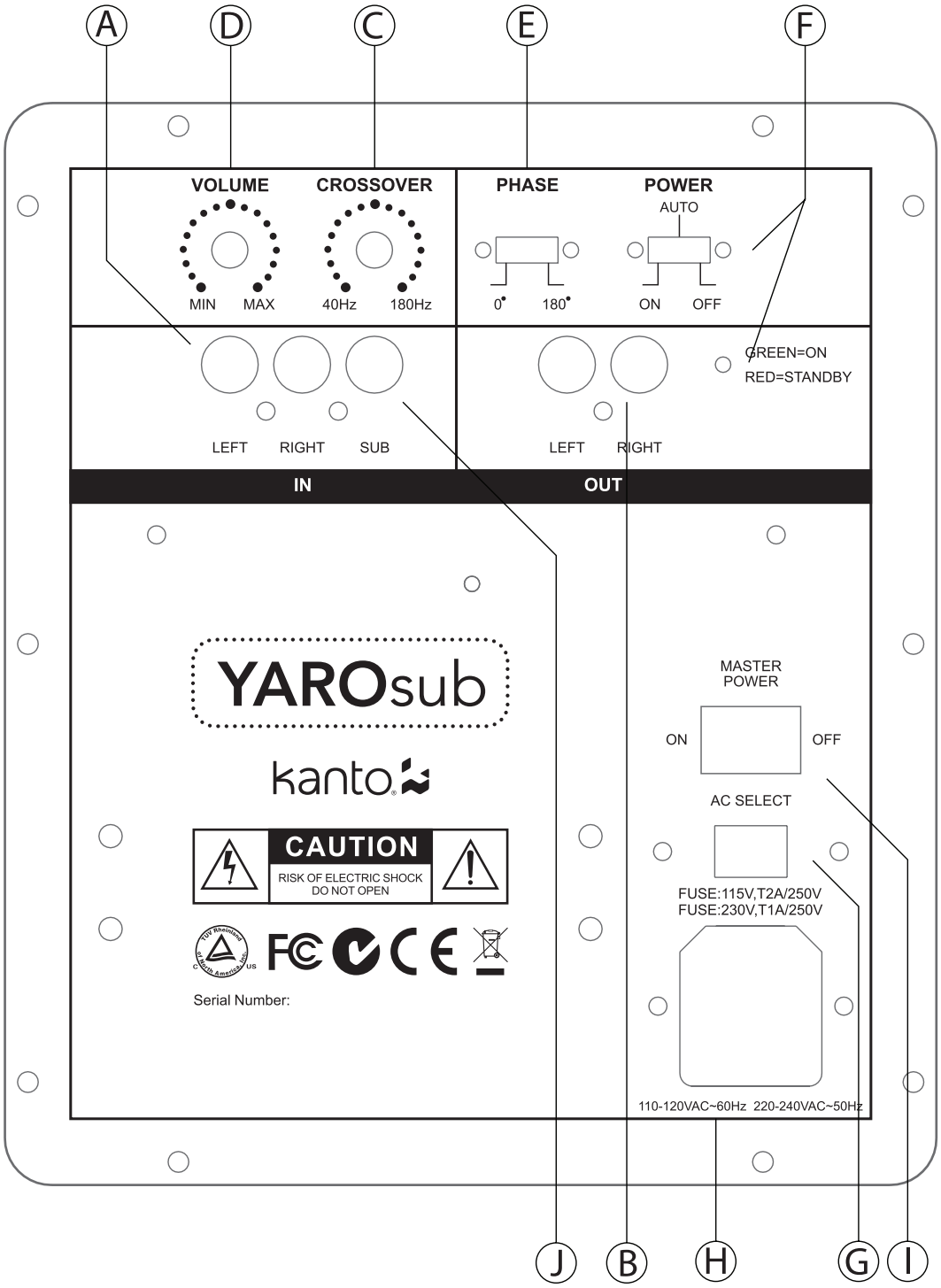
Secure all connections before turning on YAROsub.

Connect the input signal into either the RCA line in (A) or Sub in (J)

In case the YAROsub becomes out of phase with the satellite speaker, flip the phase switch to correct the problem. Maximum bass can only be achieved when the sub is in phase with the rest of the speakers.

Consult page 6 for fine tuning and positioning of your subwoofer.

Connections and Controls



Positioning

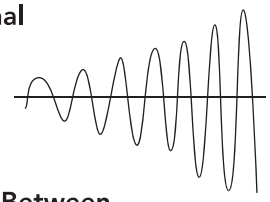
Subwoofer positioning is integral optimal performance. The proximity of the subwoofer to a wall or corner contributes to an increase in efficiency (SPL) because of the "mirror effect", also referred to as "corner loading".

It is therefore advisable that you place the YARO Sub near a wall, or preferably in the corner of the room. This will increase the subwoofer effect by 2 to 3 dB, without raising the volume control of the YARO Sub.

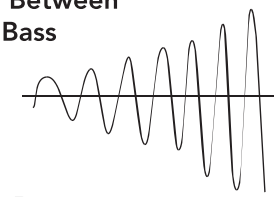
Fine Tuning

The fine tuning process involves creating a smooth transition of music between the subwoofer and the next speaker up: usual a woofer or a mid-range. As shown in the diagram below, a smooth transition between lower and upper bass is directly relative to the crossover settings and the capability of the next woofer up to reproduce lower frequencies. Keep in mind that vocals extend down to 70Hz, adjust your YARO Subwoofer accordingly.

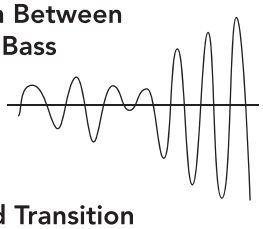
Original Input Signal



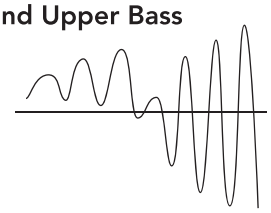
Smooth Transition Between Lower and Upper Bass



Gapped Transition Between Lower and Upper Bass



Uneven & Gapped Transition Between Lower and Upper Bass



Specifications

Type	Digital Powered Subwoofer
Frequency Response	23Hz - 180Hz
Crossover Frequency	40Hz - 130Hz
Crossover Slope	12dB per Octave
Typical THD	0.09%
S/N Ratio	>120dBA Dynamic Range
Power	2 x 47 watts RMS 4 Ω per channel @1.0% THD+N
Input Impedance	47000 Ohms Unbalanced
Fuse Rating	1 amp
Input Sensitivity	50mV - 2.3V
Power Supply	115V/230V (50Hz-60Hz)
Fuse Rating	1 amp

SUBWOOFER
200 watts 8" Subwoofer
1.5" high temperature voice coil
Durable pressed paper cone
Long excursion santoprene surrond
48oz high density magnet
89dB 1W/1M
FS: 38 Hz
Qts: 0.516
Dimensions: N/A
Weight: N/A